

# **SDMS US EPA REGION V -1**

**SOME IMAGES WITHIN THIS  
DOCUMENT MAY BE ILLEGIBLE  
DUE TO BAD SOURCE  
DOCUMENTS.**

**MEMORANDUM****Date:** January 8, 1992**From:** Paul E. Takacs, FSMU**To:** Division File**Subject:** L1630200005 -- St. Clair County  
Sauget Sites (Dead Creek Segment B) -- Sauget  
Superfund/Technical Reports

On January 7, 1992, I visited Dead Creek Segment B (CS-B) to observe Geraghty & Miller taking additional sediment samples at Site M. The sampling that was carried out was intended to supplement the site investigation (see October 2, 1991 memorandum). Monsanto plans to run the analyses on these samples for PCBs only.

The results of sampling (see attached) at one point in Site M indicate rather significant levels of chlrobenzene (10,000ppb), 1,2-DCB (26,000ppb), 1,4-DCB (40,000ppb) and 1,2,4-TCB (14,000ppb). Several other compounds were also detected, namely naphthalene, 2-methylnaphthalene, and PNAs. Total PCBs were present at 363ppm.

As for TCLP data from CS-B, the only significant levels were cadmium (0.51ppm) and 1,1-DCE (0.41ppm). Analytical concentrations are not yet available. PCBs were present in high concentrations at the north end of the study area and decreased southward. Corresponding to the former outfall at Site L, PCBs markedly increased at this point with levels again decreasing southward. High concentrations were again noted at the south end of CS-B (as the creek narrows). Total PCBs at Site L were at levels of 420ppm.

Monsanto has indicated that they will proceed with a removal this spring, based on these TCLP results. For Site M, it appears as if only the sediment in the vicinity of the inlet from CS-B would be removed. These areas would typically be the most contaminated, since the deposited sediment originates from CS-B. The sediment from other areas in Site M appear to have resulted from soil falling in from the pit edges, and not from CS-B. I have noted PCBs in these other areas of Site M at levels of 26.3ppm and 14.4ppm.

Data available to IEPA indicates that the first 2 feet of CS-B appear to be contaminated with PCBs only and that the levels drop off significantly below these depths. It is Monsanto's intention to excavate creek sediment only, which consists of approximately the first 2 to 3 feet. It is not known how Site L will be addressed.

Attachment - preliminary sample results, sediment thickness plots

cc: Terry Ayers  
Kurt Neibergall

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REGISTRATION

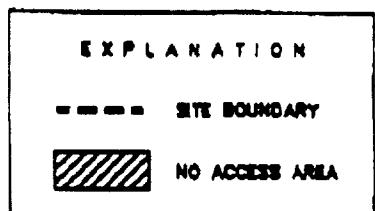
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**GERAGHTY  
& MILLER, INC.**  
Environmental Services

**LOCATION OF STUDY AREAS, DEAD CREEK  
SECTOR B AND SITES L AND M,  
SAUGET-CAHOKIA, ILLINOIS**

## FIGURE

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Table 1. Summary of POPA Hazardous Characteristic Parameters for Dead Creek Sector B, and Sites L and M, Sauget-Cathalia, Illinois.

Parameter	Sample Location: Sample Identification: Sample Depth: Sample Date:	Dead Creek AB	Dead Creek COE	Dead Creek PGH	Dead Creek W
	Regulatory Limit				
Ignitability - Flash point:	< 140 degrees F	non-ignitable	non-ignitable	non-ignitable	non-ignitable
Corrosivity (pH units)	< 2 or > 12.5	8.3	8.8	8.8	8.8
Resistivity (concentrations in mg/kg dw)					
Sulfide	500	16	<0.8	<0.8	<4.8
Cyanide	250	<1.8	<0.8	<1.8	<1.8
Volatile (concentrations in mg/L)					
Benzene	0.8	<0.020	<0.020	<0.020	<0.020
Carbon Tetrachloride	0.8	<0.020	<0.020	<0.020	0.035
Chlorobenzene	100	0.063 (0.059)*	<0.020	<0.020	0.045 (0.038)*
Chloroform	5	<0.020	<0.020	<0.020	<0.020
1,2-Dichloroethane	0.8	<0.020	<0.020	<0.020	0.027
1,1-Dichloroethylene	0.7	<0.020	<0.020	<0.020	0.41 (0.18)*
2-Butanone (MEK)	200	<0.40	<1.40	<0.40	<0.40
Tetrachloroethylene	0.7	<0.020	<0.020	<0.020	<0.020
Trichloroethylene	0.8	<0.020	<0.020	<0.020	<0.020
Vinyl chloride	0.8	<0.040	<0.040	<0.040	<0.040
Semi-volatile (concentrations in mg/L)					
Creosol (a)	200	<0.020	<0.020	<0.020	<0.020
Creosol (m,p)	200	<0.020	<0.020	<0.020	<0.020
1,4-Dichlorobutene	7.8	<0.020	<0.020	<0.020	<0.020
2,4-Dinitrotoluene	0.18	<0.020	<0.020	<0.020	<0.020
Hexachlorobenzene	0.18	<0.020	<0.020	<0.020	<0.020
Hexachlorobutadiene	0.4	<0.020	<0.020	<0.020	<0.020
Hexachloroethane	4	<0.020	<0.020	<0.020	<0.020
Nitrobenzene	2	<0.020	<0.020	<0.020	<0.020
Pentachlorophenol	100	<0.25	<0.25	<0.25	<0.25
2,4,6-Trichlorophenol	400	<0.25	<0.25	<0.25	<0.25
2,4,6-Tri dichlorophenol	2	<0.020	<0.020	<0.020	<0.020
Pyridine	5	<0.25	<0.25	<0.25	<0.25

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**GERAGHTY & MILLER, INC.**

**Summary of HCA Hazardous Chemicals Programs for Dead Creek Sector II, and Areas L and M, Elmer's-Carriere, Illinois**

Table 1. Summary of RCRA Hazardous Characteristics Parameters for Dead Creek Sector B and Stems L and M, Sauk-Cahokia, Illinois

Sample Location:	Site L	Site L	Site M	Site M
Sample Identification:	GML1	GML1	M1, M2, M3	Composite-M3
Sample Depth:	3-6'	8-14'	0-6'	0-6'
Sample Date:	10/16/91	10/16/91	11/6/91	12/4/91
<b>Regulatory Limit</b>				
Ignitability - Flash point	<140 degrees F	non-ignitable	non-ignitable	non-ignitable
Corrosivity (pH units)	<2 or >12.5	8.2	8.4	7.2
<b>Reactivity</b> (concentrations in mg/kg dw)				
Sulfide	800	71	34	800+
Cyanide	200	<1.0	<1	<1.0
<b>Volatile</b> (concentrations in mg/L)				
Benzene	0.4	<0.020	<0.020	<0.020
Carbon Tetrachloride	0.8	<0.020	<0.020	<0.020
Chlorobenzene	100	0.041 (0.082)*	<0.020	0.058 (0.082)*
Chloroform	8	<0.020	<0.020	<0.020
1,1-Dichloroethane	0.4	<0.020	<0.020	<0.020
1,1-Dichloroethylene	0.7	<0.020	<0.020	<0.020
2-Butanone (MEKO)	200	<0.40	<0.40	<0.40
Tetrachloroethylene	0.7	<0.020	<0.020	<0.020
Trichloroethylene	0.4	<0.020	<0.020	<0.020
Vinyl chloride	0.1	<0.040	<0.040	<0.040
<b>Semi-volatile</b> (concentrations in mg/L)				
Cresol (t)	200	<0.020	<0.020	<0.020
Cresol (m,p)	200	0.07 (0.10)*	0.17 (0.11)*	<0.020
1,4-Dichlorobenzene	7.8	0.07 (0.09)*	<0.020	<0.020
2,4-Dinitrotoluene	0.18	<0.020	<0.020	<0.020
Hexachlorobenzene	0.13	<0.020	<0.020	<0.020
Hexachlorobutadiene	0.8	<0.020	<0.020	<0.020
Hexachloroethane	1	<0.020	<0.020	<0.020
Nitrobenzene	2	<0.020	<0.020	<0.020
Pentachlorophenol	100	<0.25	<0.25	<0.25
2,4,6-Trichlorophenol	400	<0.25	<0.25	<0.25
2,4,6-Triphenylphenol	2	<0.020	<0.020	<0.020
Pyridine	8	<0.25	<0.25	<0.25

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**GERAGHTY & MILLER, INC.**

Table 1. Summary of RCRA Hazardous Characteristics Parameters for Dead Creek Sector B, and Sites L and M, Sauget-Cahokia, Illinois.

Parameter	Sample Location:	Site L	Site L	Site M	Site M
	Sample Identification:	GML1	GML1	M1, M2, M3	Composite-MB
	Sample Depth:	3-6'	5-14'	0-6'	0-6'
	Sample Date:	9/18/91	10/18/91	11/5/91	12/4/91
	Regulatory Limit				
<b>Pesticides</b> (concentrations in mg/L)					
Chlordane	0.03	<0.0050	<0.0010	<0.0050	NA
Endrin	0.01	<0.0010	<0.0010	<0.0010	NA
Heptachlor	0.008	<0.00050	<0.00050	<0.00050	NA
Heptachlor Epoxyde	0.008	<0.00050	<0.00050	<0.00050	NA
Undane (g-BHC)	0.4	<0.00050	<0.00050	<0.00050	NA
Methoxychlor	10	<0.005	<0.005	<0.005	NA
Toxaphene	1.5	<0.005	<0.005	<0.005	NA
<b>Herbicides</b> (concentrations in mg/L)					
2,4-D	10	<0.005	<0.005	<0.005	NA
Glyox (2,4,5-TP)	1	<0.010	<0.010	<0.010	NA
<b>Metals</b> (concentrations in mg/L)					
Arsenic	3	<0.30	<0.30	<0.30	NA
Boron	100	1.4 (1.7)*	1.4 (1.3)*	3.7 (3.6)*	NA
Cadmium	1	0.006 (0.005)*	0.021 (0.015)*	0.037 (0.031)*	NA
Chromium	3	<0.050	<0.050	<0.050	NA
Lead	5	0.34 (0.28)*	<0.30	0.82 (0.44)*	NA
Mercury	0.2	<0.050	<0.050	<0.050	NA
Selenium	1.0	<0.50	<0.50	<0.50	NA
Silver	4.0	<0.010	<0.010	<0.010	NA

NA Not analyzed.

mg/L Milligrams per liter.

mg/kg dw Milligrams per kilogram, dry weight.

&lt; Less than.

&gt; Greater than.

Method 846-1311 - TCLP results which are above the quantitation limit have been corrected by analytical bias per instructions in Section 8.2.8 of Method 1311 (Federal Register, June 29, 1989). The first number reported is the corrected TCLP value (used to determine if the sample is hazardous) and the value in parentheses () is the uncorrected analytical result.

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GERAGHTY &amp; MILLER, INC.

21/104  
ON RETENTION LETTER FROM RCRA HAZARDOUS WASTE

Table I. Summary of PCB Data for Dead Creek-Sector B, and Sites L and M, Saugat-Cabotia, Illinois.

	Sample Location: Sample Identification: Sample Depth: Sample Date:	Dead Creek A-B1 0-2 ft 10/18/91	Dead Creek A-B2 2-4 ft 10/18/91	Dead Creek A-B3 5-6 ft 10/18/91	Dead Creek B-B1 0-2 ft 10/18/91	Dead Creek B-B2 2-4 ft 10/18/91	Dead Creek B-B3 4-6 ft 10/18/91	Dead Creek C-B1 0-1.5 ft 10/18/91	Dead Creek C-B2 1.5-3.0 ft 10/21/91
<b>Parameters</b> <i>(concentrations in ug/kg dw)</i>									
Aroclor 1016		<100,000	<110	<110	<120,000	<100	<110	<60,000	<120
Aroclor 1221		<100,000	<110	<110	<120,000	<100	<110	<60,000	<120
Aroclor 1222		<100,000	<110	<110	<120,000	<100	<110	<60,000	<120
Aroclor 1242		<100,000	<110	<110	<120,000	<100	<110	<60,000	<120
Aroclor 1248		<100,000	200	<110	200,000	140	<110	400,000	400
Aroclor 1254		100,000 J	120 J	340	<230,000	<200	<220	<120,000	<250
Aroclor 1260		100,000 J	<230	<210	<230,000	<200	<220	<120,000	<250

ug/kg Micrograms per liter.

dw Dry weight.

e Estimated value.

X Due to the presence of Aroclor 1248, 1254 and 1260, the quantitation is based on one peak only.

<sup>1</sup> The author would like to thank Prof. Dr. David C. Greenaway for his valuable comments on an earlier draft.

<sup>10</sup> See also the discussion of the Poles' desire for a Second Constitutional Conference in L. M. S. G. de Vries, 'The Constitutional Conference of 1917-1918: The Poles' Rejection of the Treaty of Versailles', *Journal of Central European History*, 30 (1999), pp. 1–20.

Table 1. Summary of PCB Data for Dead Creek-Sector B, and Sites L and M, St. Paul-Cahokia, Illinois.

Sample Location:	Site M	Site M	Site M
Sample Identification:	M1	M2	M3
Sample Depth:	0-3 ft	0-3.5 ft	0-6 ft
Sample Date:	11/6/91	11/6/91	11/6/91
<b>Parameters:</b>			
(concentrations in $\mu\text{g}/\text{kg}$ dw)			
Aroclor 1016	<2,000	<1,400	<110,000
Aroclor 1221	<2,000	<1,400	<110,000
Aroclor 1232	<2,000	<1,400	<110,000
Aroclor 1242	<2,000	<1,400	<110,000
Aroclor 1248	18,000	4,000	>100,000
Aroclor 1254	10,000 X	4,000 X	90,000 X
Aroclor 1280	2,000 X	2,000 X	70,000 X

$\mu\text{g}/\text{kg}$  Micrograms per liter.

dw Dry weight.

X Estimated value.

Due to the presence of Aroclor 1248, 1254 and 1280, the quantitation is based on one peak only.

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SD-1A EXISTING EME SEDIMENT SAMPLING LOCATIONS  
▲ PROPOSED GMM SEDIMENT SAMPLING LOCATIONS  
— SITE BOUNDARY

Source: Ecology and Environment, Inc., 1988



**GERAGHTY  
& MILLER, INC.**  
*Environmental Services*

**SEDIMENT SAMPLING LOCATIONS  
AT SITE M, CAHOKIA, ILLINOIS**

**FIGURE**

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**SL SAVANNAH LABORATORIES**  
**& ENVIRONMENTAL SERVICES, INC.**

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: SI-37266

Mr. Brian Blum  
Geraghty & Miller, Inc.  
125 East Bethpage Road  
Plainview, NY 11803

Received: 06 NOV 91

M-3

Project: SDG#GMS04/LTO#06490/DEAD CR.  
Sampled By: Client

## REPORT OF RESULTS

Page 3

LOG NO.	SAMPLE DESCRIPTION, SOLID OR SEMI-SOLID SAMPLE	DATE SAMPLED
37266-3	M-3 (0-6')	11-05-91
PARAMETER		37266-3
<b>Volatiles by GC/MS (8240)</b>		
Chloromethane, ug/kg dw	45000	
Bromomethane, ug/kg dw	45000	
Vinyl Chloride, ug/kg dw	45000	
Chloroethane, ug/kg dw	45000	
Methylene Chloride, ug/kg dw	22000	
Acetone, ug/kg dw	45000	
Carbox Disulfide, ug/kg dw	22000	
1,1-Dichloroethene, ug/kg dw	22000	
1,1-Dichloroethane, ug/kg dw	22000	
cis/trans-1,2-Dichloroethylene, ug/kg dw	22000	
Chloroform, ug/kg dw	22000	
1,2-Dichloroethane, ug/kg dw	22000	
1-Butanone, ug/kg dw	45000	
1,1,1-Trichloroethane, ug/kg dw	22000	
Carbon Tetrachloride, ug/kg dw	22000	
Vinyl Acetate, ug/kg dw	45000	
Bromodichloromethane, ug/kg dw	22000	
1,1,1,2-Tetrachloroethane, ug/kg dw	22000	
1,2-Dichloropropane, ug/kg dw	22000	
Trans-1,3-Dichloropropene, ug/kg dw	22000	
Trichloroethane, ug/kg dw	22000	
Dibromochloromethane, ug/kg dw	22000	
1,1,2-Trichloroethane, ug/kg dw	22000	

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& ENVIRONMENTAL SERVICES, INC.**

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: 81-37266

Received: 06 NOV 91

Mr. Brian Blum  
Geraghty & Miller, Inc  
125 East Sethpase Road  
Plainview, NY 11803

Project: SDG#GM804/LTO#06490/DEAD CR.  
Sampled By: Client

## REPORT OF RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
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37266-3	M3 (0-8')	11-05-91
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## PARAMETER

37266-3

Benzene, ug/kg dw	22000
Cis-1,3-Dichloropropene, ug/kg dw	22000
Bromoform, ug/kg dw	22000
1-Hexanone, ug/kg dw	45000
4-Methyl-2-pentanone, ug/kg dw	48000
Tetrachloroethane, ug/kg dw	22000
Toluene, ug/kg dw	22000
Chlorobenzene, ug/kg dw	22000
Ethylbenzene, ug/kg dw	22000
Styrene, ug/kg dw	22000
Xylenes, ug/kg dw	22000
Cis-1,2-Dichloroethane, ug/kg dw	22000
Date Analyzed	11-18-91

804

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& ENVIRONMENTAL SERVICES, INC.**

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO. 31-37266

Received: 06 NOV 91

Mr. Brian Blum  
Geraghty & Miller, Inc.  
125 East Bethpage Road  
Plainview, NY 11803

Project: SDG&GM804/LTCW06490/DEAD CR.  
Sampled By: Client

REPORT OF RESULTS

Page 5

LOG NO.	SAMPLE DESCRIPTION, SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
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17266-3	M3 (0-8')	11-05-91
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PARAMETER	LOG NO.
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Semivolatiles (8270)

Phenol, ug/kg dw	12000U
bis(2-Chloroethyl) ether, ug/kg dw	12000U
2-Chlorophenol, ug/kg dw	12000U
1,4-Dichlorobenzene, ug/kg dw	12000U ←
Benzyl alcohol, ug/kg dw	12000U
1,2-Dichlorobenzene, ug/kg dw	26000 ←
2-Methylphenol (o-cresol), ug/kg dw	12000U
Bis(2-chloroisopropyl)ether, ug/kg dw	12000U
4-Methylphenol (p-cresol), ug/kg dw	12000U
N-Nitroso-di-n-propylamine, ug/kg dw	12000U
Hexachloroethane, ug/kg dw	12000U
Nitrobenzene, ug/kg dw	12000U
Isophorone, ug/kg dw	12000U
2-Nitrophenol, ug/kg dw	12000U
3,4-Dimethylphenol, ug/kg dw	12000U
Benzoic acid, ug/kg dw	59000U
bis(1-Chloroethoxy) methane, ug/kg dw	12000U
2,4-Dichlorophenol, ug/kg dw	12000U
1,2,4-Trichlorobenzene, ug/kg dw	20000U ←
Naphthalene, ug/kg dw	26000U ←
4-Chloraniline, ug/kg dw	12000U
Hexachlorobutadiene, ug/kg dw	12000U
4-Chloro-3-methylphenol, ug/kg dw	12000U

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 Plainview, NY 11803

Received: 06 NOV 91

Project: SDG#GMS04/LTO#06490/DEAD CR.  
 Sampled By: Client

REPORT OF RESULTS

Page 6

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
37266-3	XO (0-8')	11-05-91
PARAMETER		37266-3
1-Methylnaphthalene, ug/kg dw	69000J	←
Hexachlorocyclopentadiene, ug/kg dw	120000	
1,4,5-Trichlorophenol, ug/kg dw	120000	
1,4,5-Trichlorophenol, ug/kg dw	390000	
1-Chloronaphthalene, ug/kg dw	120000	
1-Nitroaniline, ug/kg dw	390000	
Dimethylphthalate, ug/kg dw	120000	
Acenaphthylene, ug/kg dw	120000	
1-Nitroaniline, ug/kg dw	390000	
Acenaphthene, ug/kg dw	120000	
1,4-Dinitrophenol, ug/kg dw	390000	
4-Nitrophenol, ug/kg dw	390000	
Dibenzofuran, ug/kg dw	120000	
2,4-Dinitrotoluene, ug/kg dw	120000	
2,6-Dinitrotoluene, ug/kg dw	120000	
Diethylphthalate, ug/kg dw	120000	
4-Chlorophenyl-phenyl ether, ug/kg dw	120000	
Fluorene, ug/kg dw	22000J	←
4-Nitroaniline, ug/kg dw	390000	
4,6-Dinitro-2-methylphenol, ug/kg dw	390000	
N-Nitrosodiphenylamine/Diphenylamine, ug/kg dw	120000	
4-Bromophenyl-phenyl-ether, ug/kg dw	120000	
Hexachlorobenzene, ug/kg dw	120000	
Pentachlorophenol, ug/kg dw	390000	

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**& ENVIRONMENTAL SERVICES, INC.**

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LOG NO: 81-37266

Received: 06 NOV 91

Mr. Brian Blum  
 Geraghty & Miller, Inc.  
 125 East Bethpage Road  
 Plainview, NY 11803

Project: SDG#GK804/LTC#06490/DEAD CR  
 Sampled By: Client

REPORT OF RESULTS

Page 7

LOG NO	SAMPLE DESCRIPTION . SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
37266-3	ME (0-8')	11-09-91
PARAMETER		37266-3
Phenanthrene, ug/kg dw	22000J ← —	
Anthracene, ug/kg dw	2200J ← —	
Di-n-butylphthalate, ug/kg dw	12000J	
Fluoranthene, ug/kg dw	22000 ← —	
Pyrene, ug/kg dw	2200J ← —	
Butylbenzylphthalate, ug/kg dw	120000J	
1,3'-Dichlorobenzidine, ug/kg dw	240000J	
Benz(a)anthracene, ug/kg dw	2400J ← —	
bis(2-Ethylhexyl) phthalate, ug/kg dw	22000 ← —	
Chrysene, ug/kg dw	12000 ← —	
Di-n-octylphthalate, ug/kg dw	22000J	
Benz(b)fluoranthene, ug/kg dw	22000 ← —	
Benz(k)fluoranthene, ug/kg dw	9300J	
Benz(a)pyrene, ug/kg dw	7800J	
Indeno (1,2,3-cd)pyrene, ug/kg dw	3700J	
Dibenz(a,h)anthracene, ug/kg dw	1200J	
Benz(g,h,i)perylene, ug/kg dw	6000J	
1,3-Dichlorobenzene, ug/kg dw	4100J	
Date Extracted	11.08.91	
Date Analyzed	11.18.91	

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**& ENVIRONMENTAL SERVICES, INC.**

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LOG NO: 81-37266

Mr. Brian Blum  
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125 East Bethpage Road  
Plainview, NY 11803

Received: 06 NOV 91

Project: SD04OMS04/LTCM0649C/DEAD CR.  
Sampled By: Client

## REPORT OF RESULTS

Page 8

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
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37266-3	M3 (0-8')	11-08-91
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PARAMETER	37266-3
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## Pesticides (8080)

alpha-BHC, ug/kg dw	110000
beta-BHC, ug/kg dw	110000
delta-BHC, ug/kg dw	110000
gamma-BHC, ug/kg dw	110000
Heptachlor, ug/kg dw	110000
Aldrin, ug/kg dw	110000
Heptachlor epoxide, ug/kg dw	110000
Endosulfan I, ug/kg dw	110000
Dieldrin, ug/kg dw	230000
4,4'-DDD, ug/kg dw	230000
Endrin, ug/kg dw	230000
Endosulfan II, ug/kg dw	230000
4,4'-DDT, ug/kg dw	230000
Endrin ketone, ug/kg dw	230000
Methoxychlor, ug/kg dw	110000
alpha-Chlordane, ug/kg dw	110000
gamma-Chlordane, ug/kg dw	110000
Toxaphene, ug/kg dw	230000
Aroclor-1016, ug/kg dw	2100000
Aroclor-1111, ug/kg dw	2100000
Aroclor-1232, ug/kg dw	2100000

**SL SAVANNAH LABORATORIES**  
**& ENVIRONMENTAL SERVICES, INC.**

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 362-0165

LOG NO: 81-37266

Received: 06 NOV 91

Mr. Brian Blum  
 Geraghty & Miller, Inc.  
 125 East Bethpage Road  
 Plainview, NY 11803

Project: SDG40M304/LTC406490/DEAD CR  
 Sampled By: Client

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
87266-3	MS (0-8')	11-05-91
PARAMETER		87266-3
Aroclor-1242, ug/kg dw	10000U	
Aroclor-1248, ug/kg dw	330000	—
Aroclor-1254, ug/kg dw	81500J	—
Aroclor-1260, ug/kg dw	33000J	—
Date Extracted	11.12.91	
Date Analyzed	11.10.91	
Metals (6010)		
Aluminum, mg/kg dw	7290	
Antimony, mg/kg fw	41.2W	
Barium, mg/kg dw	9060	
Beryllium, mg/kg dw	3.4C	
Cadmium, mg/kg dw	47.2	
Calcium, mg/kg dw	12500	
Chromium, mg/kg dw	18J	
Cobalt, mg/kg dw	20.6B	
Copper, mg/kg dw	21000	
Iron, mg/kg dw	48500	
Magnesium, mg/kg dw	4160	
Manganese, mg/kg dw	171	
Nickel, mg/kg dw	2490	
Potassium, mg/kg dw	9895	
Silver, mg/kg dw	26.0	
Sodium, mg/kg dw	338U	
Vanadium, mg/kg dw	37.7	
Zinc, mg/kg dw	11600*	
Date Analyzed	11.26.91	

**SL SAVANNAH LABORATORIES**  
**& ENVIRONMENTAL SERVICES, INC.**

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0185

LOG NO: 51-37266

Received: 04 NOV 91

Mr. Brian Slum  
 Geraghty & Miller, Inc.  
 125 East Bethpage Road  
 Plainview, NY 11803

Project: SDG&GM#04/LTC#06490/DEAD CR.  
 Sampled By: Client

REPORT OF RESULTS

Page 10

LOG NO	SAMPLE DESCRIPTION, SOLID OR SEMISOLID SAMPLES	DATE SAMPLED
37266-3	122 (0-4')	11-05-91
		17266-3
PARAMETER		
Mercury (7471)		
Mercury, mg/kg dw	0.45W	
Date Analyzed		11-21-91
Lead (7441)		
Lead, mg/kg dw	1910	
Date Analyzed		12-03-91
Selenium (7740)		
Selenium, mg/kg dw	3.20W	
Date Analyzed		12-07-91
Arsenic (7060)		
Arsenic, mg/kg dw	94.0W	
Date Analyzed		12-06-91
Thallium (7841)		
Thallium, mg/kg dw	6.70W	
Date Analyzed		11-29-91
Percent Solids, %		28
Cyanide (9010A)		
Cyanide, Total, mg/kg dw	1.3W	
Date Analyzed		12-16-91

Laboratory locations in Savannah, GA • Tallahassee, FL • Mobile, AL • Deerfield Beach, FL • Tampa, FL

N

## Dead Creek - Site M

123/9  
T.D. T.C.T.

250' x 250'

250'

240  
210  
180  
150  
120  
90  
50  
10

0.9/8.5/2  
1.5/10.8/1  
1.5/12/1.5  
1.1/12/1.5  
0.25/1.8/1.25  
0.75/4.5/7.5  
0.5/2.5/1.75

5/6.75/1.75  
9/10/1  
11/12.25/1  
11.5/1.5  
11/14/1  
11/14/1  
11/14/1

5/11.25/2.25  
8/9/1  
10.5/11.25/1.75  
11/15/1.5  
11.5/12.5/1.5  
11.5/13.25/1.25

8/11/2  
6.75/10/1.25  
10.5/11.5/1.25  
11.5/11.5/1.75  
11.5/12.5/1.75  
11.5/13.25/1.25

8/11.5/1.5  
6.9/8.75/2.25  
8.25/10/1.5  
8.5/10.5/2  
11.5/12/1.5  
8.75/11.25  
8/10.25/1.25

320' C.S.

110  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220  
230  
240  
250

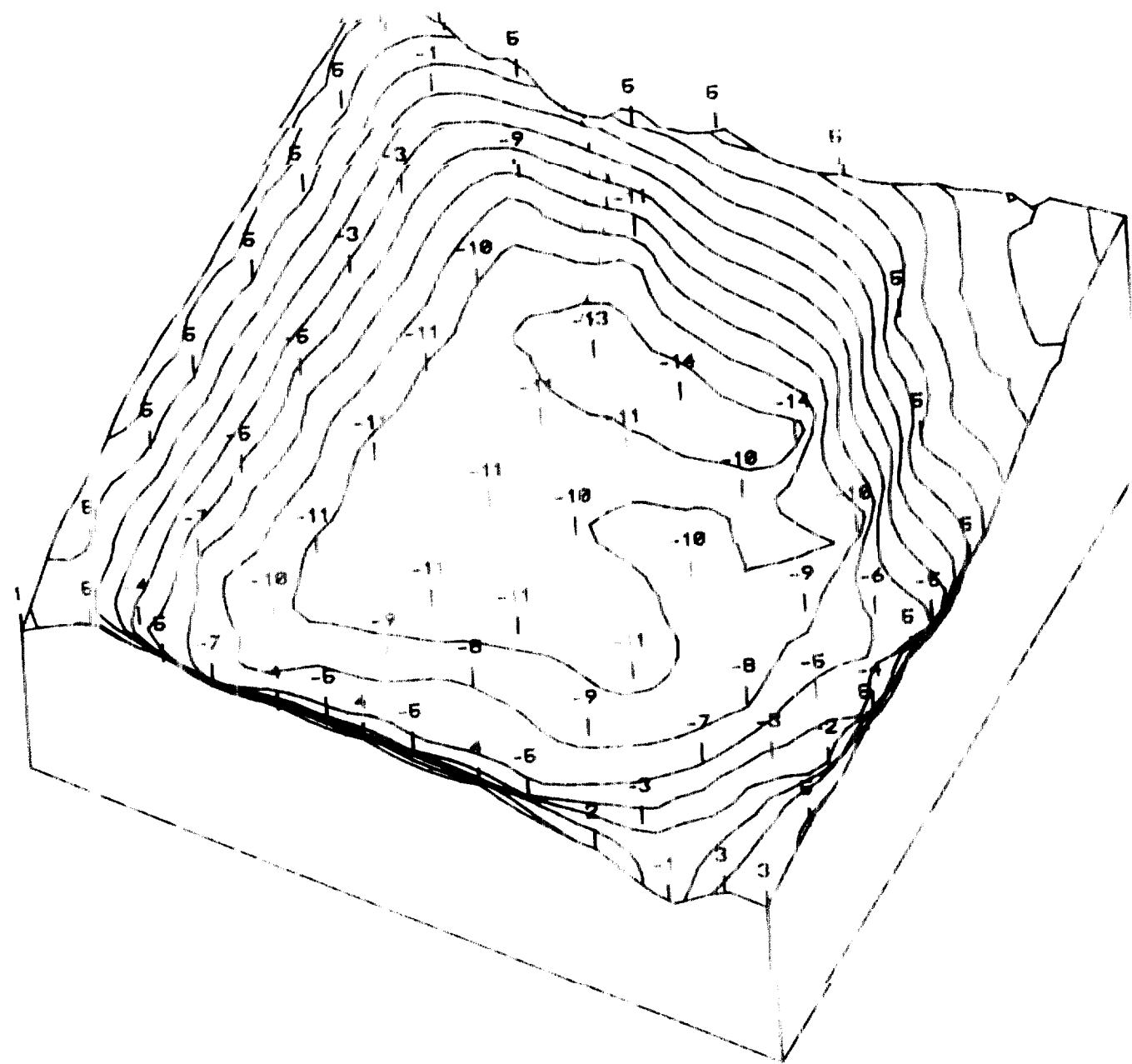
DEAD CREEK

## LEGEND

# / # / # = WATER DEPTH / BOTTOM DEPTH / (TOP OF sediment)

Sampling Location = X

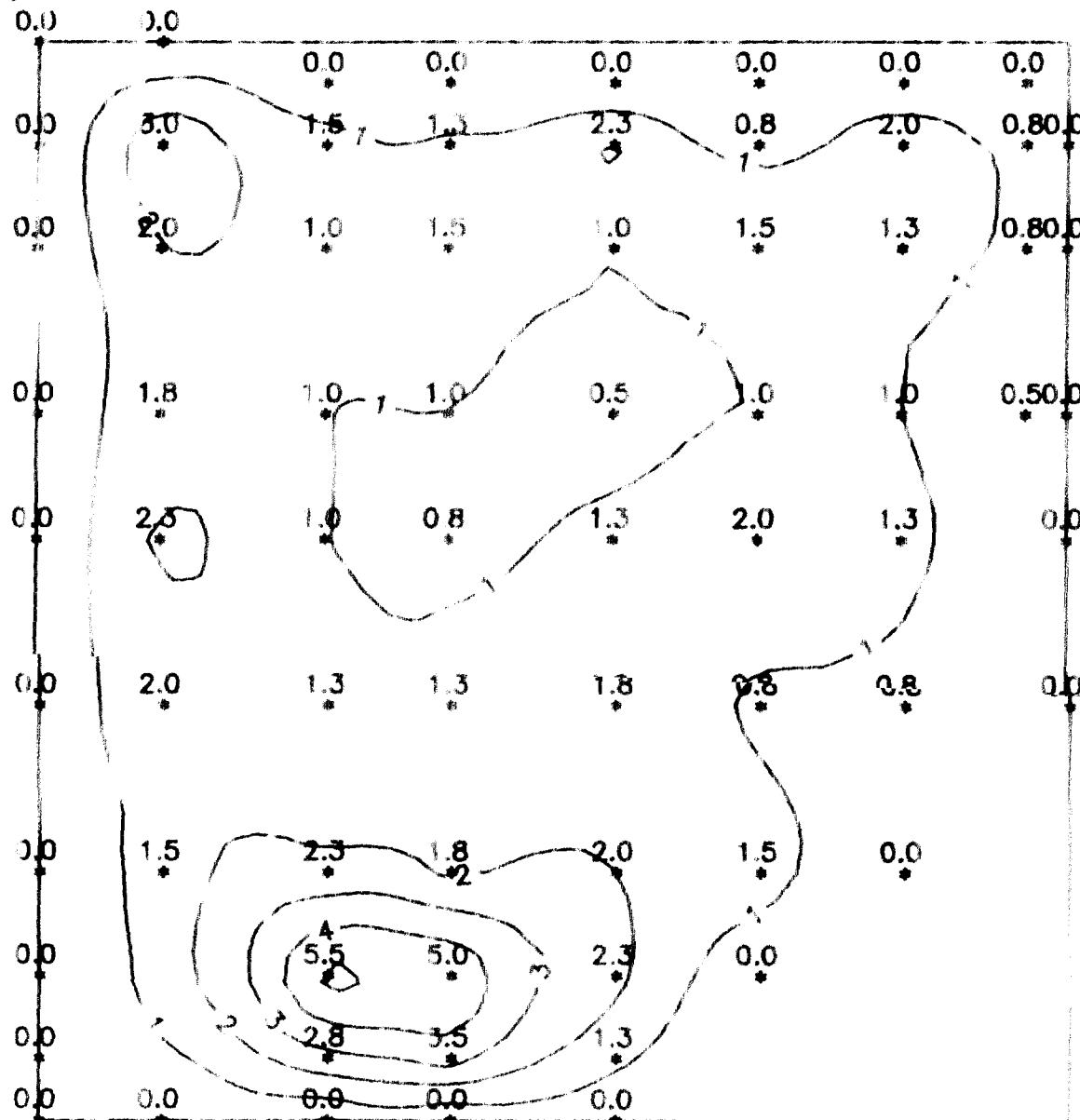
Figure 1



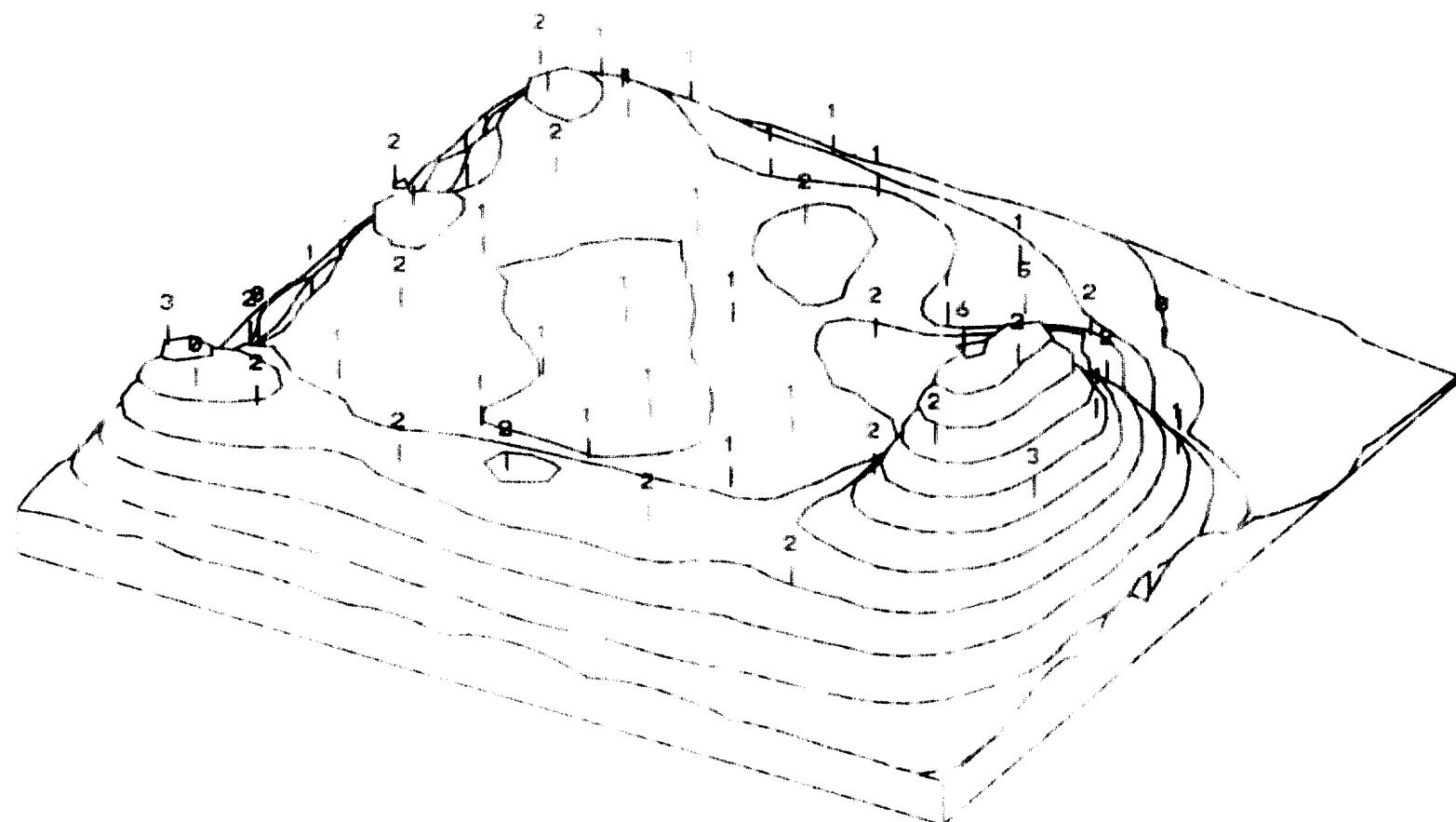
SITE M BOTTOM SURFACE ( VIEW FROM SW )

N

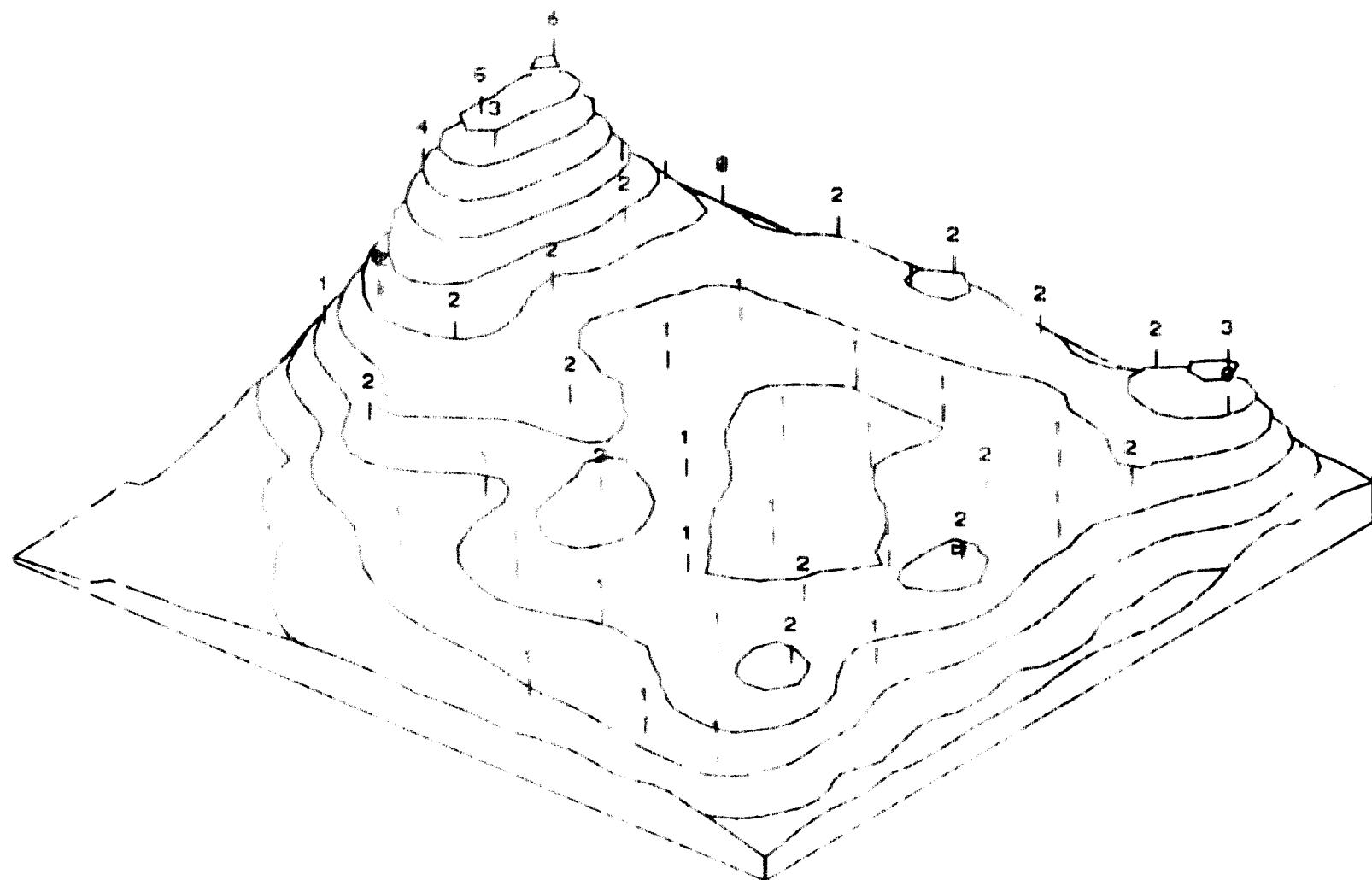
### SITE M SEDIMENT THICKNESS



SCALE 1:4.3333



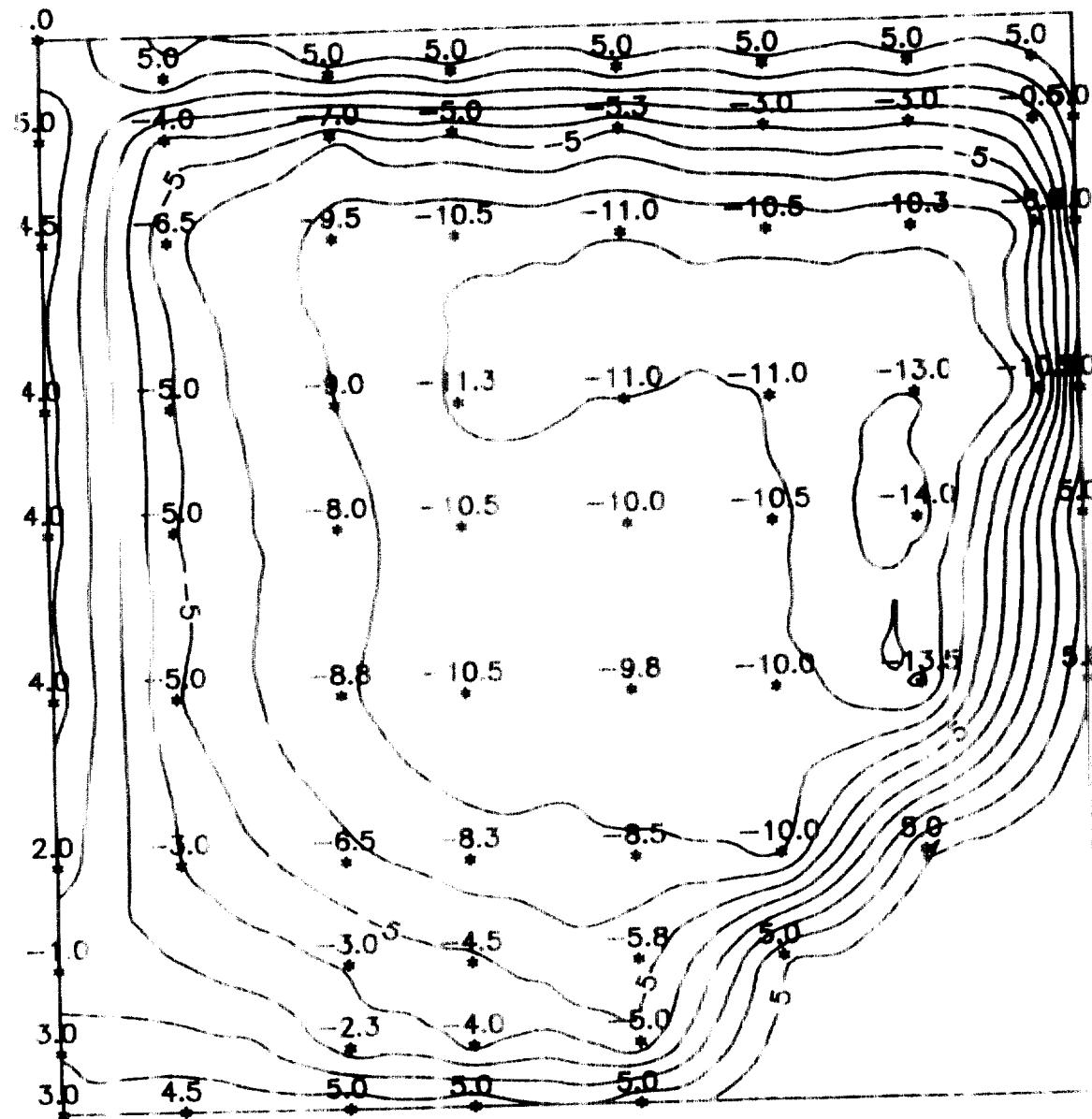
SITE M SEDIMENT THICKNESS ( VIEW FROM SW )



SITE M SEDIMENT THICKNESS ( VIEW FROM NE )

N  
A

## SITE M CURRENT SURFACE



Z

### SITE M POST EXCAVATION SURFACE

